Attachment A: NonGLP Protocol

Ecolab
NonGLP Study Identification Number: NonGLP 20200019

TEST PROTOCOL

STUDY TITLE: **919871 Spray Disinfection Efficacy**

EPA Reg. No.: **1677-260**

NONGLP STUDY NUMBER: NonGLP 20200019

DESCRIPTION OF STUDY OBJECTIVE

The purpose of this study is to evaluate the bacterial disinfection efficacy of the test substance when sprayed with an electrostatic sprayer on hard, inanimate environmental surfaces following the current AOAC 961.02 Germicidal Spray Products method. The test systems to be evaluated as well as the experimental design are described below.

TEST SUBSTANCE IDENTIFICATION

Test Substance Name	Formula Code	Batch Identification
S&S Sanitizer	919871	5010EG1500 MMB62028
		5010EG1800 MMB62027

Active Ingredient	Expected Concentration Range
Dodecylbenzenesulfonic Acid	11.4-14.4%
Lactic Acid	29.5-38.6%

CHEMICAL QUALITY VERIFICATION OF THE TEST SUBSTANCE

A production batch certification of analysis will be included with the study file to substantiate the level of active ingredient in the test substance batches used in testing.

EFFICACY TESTING PROCEDURE

Efficacy testing will be conducted according to Microbiology Services Standard Operating Procedure MS010: *Germicidal Spray Products as Disinfectants*.

Test parameters

Test Systems:	*Staphylococcus aureus* ATCC 6538 *Salmonella enterica* ATCC 10708
Organic Soil Load:	None
Exposure Time:	8 minutes
Exposure Temperature:	Room Temperature (15-30°C)
Test Substance Concentration:	0.52 oz/gallon targeting the lower certified limit Batch 5010EG1500 MMB62028: 4.10g + 995.90g (±0.02g) Batch 5010EG1800 MMB62027: 4.07g + 995.93g (±0.02g)
Test Substance Diluent:	400 ppm AOAC Synthetic Hard Water
Test Surface:	Glass microscope slides, non-corrosive, 18 x 36mm
Spray Distance:	7 inches, visually estimated
Spray Time:	2 seconds
Number of Test Carriers:	10 per batch
Neutralizing Subculture Medium:	Letheen Broth
Plating Medium:	Tryptic Soy Agar with 5% Sheep's Blood (BAP)
Incubation of Tubes & Plates:	48 ± 2 hours at 35 ± 2°C

Testing Controls (as applicable)

- Determination of Spray Weights
- Carrier Enumeration
- Viability Control
- Negative Control
- Test Substance Diluent Control
- Blood Serum Sterility Control
- Neutralization confirmation
- Test system purity

Interpretation of results / Acceptance criteria

The test substance is deemed acceptable if no growth of the test system is observed on 10 out of 10 test carriers.

Good Laboratory Practices (GLP) – NonGLP Statement:

This study will not be conducted according to Good Laboratory Practices as stated in 40 CFR Part 160 or 21 CFR Part 58.

Final Study File Archival:

Following the completion of the study, the original final report and raw data (or exact copy) will be archived at the Ecolab Schuman Campus in Eagan, Minnesota or at an approved off-site location. The study file will be maintained for at minimum the life of the commercial product plus four years.

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